

Please provide the following information, and submit to the NOAA DM Plan Repository.

Reference to Master DM Plan (if applicable)

As stated in Section IV, Requirement 1.3, DM Plans may be hierarchical. If this DM Plan inherits provisions from a higher-level DM Plan already submitted to the Repository, then this more-specific Plan only needs to provide information that differs from what was provided in the Master DM Plan.

URL of higher-level DM Plan (if any) as submitted to DM Plan Repository:

1. General Description of Data to be Managed**1.1. Name of the Data, data collection Project, or data-producing Program:**

Bathymetric Contours

1.2. Summary description of the data:

This layer contains bathymetric contours which provide the size, shape and distribution of underwater features. The contours are from zero to -100m with a contour every 10 meters, a -101m to -500m with contours every 25meters, and -501m+ with contours every 100m until all contours had been created for the DEM utilized. The DEM utilized was the Global Multi-Resolution Topography (GMRT) Synthesis which is a multi-resolution gridded global Digital Elevation Model (DEM) that includes cleaned processed ship-based multibeam sonar data at their full spatial resolution (~100m in the deep sea). This dataset has been projected into World Mercator.

1.3. Is this a one-time data collection, or an ongoing series of measurements?

One-time data collection

1.4. Actual or planned temporal coverage of the data:

2018-05-10

1.5. Actual or planned geographic coverage of the data:

W: -179.977287, E: 179.984439, N: 74.680439, S: -17.541414

1.6. Type(s) of data:

(e.g., digital numeric data, imagery, photographs, video, audio, database, tabular data, etc.)
Map (digital)

1.7. Data collection method(s):

(e.g., satellite, airplane, unmanned aerial system, radar, weather station, moored buoy, research vessel, autonomous underwater vehicle, animal tagging, manual surveys, enforcement activities, numerical model, etc.)

1.8. If data are from a NOAA Observing System of Record, indicate name of system:

1.8.1. If data are from another observing system, please specify:**2. Point of Contact for this Data Management Plan (author or maintainer)****2.1. Name:**

NOAA Office for Coastal Management (NOAA/OCM)

2.2. Title:

Metadata Contact

2.3. Affiliation or facility:

NOAA Office for Coastal Management (NOAA/OCM)

2.4. E-mail address:

coastal.info@noaa.gov

2.5. Phone number:

(843) 740-1202

3. Responsible Party for Data Management

Program Managers, or their designee, shall be responsible for assuring the proper management of the data produced by their Program. Please indicate the responsible party below.

3.1. Name:**3.2. Title:**

Data Steward

4. Resources

Programs must identify resources within their own budget for managing the data they produce.

4.1. Have resources for management of these data been identified?**4.2. Approximate percentage of the budget for these data devoted to data management (specify percentage or "unknown"):****5. Data Lineage and Quality**

NOAA has issued Information Quality Guidelines for ensuring and maximizing the quality, objectivity, utility, and integrity of information which it disseminates.

5.1. Processing workflow of the data from collection or acquisition to making it publicly accessible

(describe or provide URL of description):

Process Steps:

- 2018-05-02 00:00:00 - Merge the three contour data sets to make one Contours set

for the America EEZ & dissolve based on the Contours interval. Utilize a shapefile of America & US Territories land areas only to erase sections of contours that might fall on land given the granularity of the Rasters. Call this contour set:

USA_EEZContours_Clipd.

- 2018-05-11 00:00:00 - Utilized the Smooth Line (Cartography) Tool with the PAEK algorithm to calculate a smoothed line that will not pass through the input line vertices at a .1 Decimal Degree smoothing tolerance & preserving endpoints for closed lines to create an enhanced cartographic product for viewing.

- 2018-05-03 00:00:00 - Gather individual American Samoa .asc files, set proper projections for each file, merge American Samoa files to one Raster, project into Mercator. Utilize Raster to Polygon to create an exact area of the American Samoa Raster to cut out of EEZ_DEM contours. Utilize the contour tool (spatial analyst) & create three data sets, 1. zero to -100 creating a contour every 10 meters, 2. -101 to -500 with contours every 25meters, 3. -501+ with contours every 100m. Remove any contours that create that are not within the designated layer by using the select by attribute in the Attribute Table & selecting only the contours you want to keep, export the data as a new shapefile. Merge the three contour data sets to make one Contour set & dissolve based on the Contours interval, call layer American Samoa Contours.

- 2018-05-01 00:00:00 - Download GRMT DEM of all USA & Territory areas to the EEZ & mosaic together to form one EEZ_DEM. Utilize ArcGIS spatial analyst - contour tool & create three data sets, 1. zero to -100 creating a contour every 10 meters, 2. -101 to -500 with contours every 25meters, 3. -501+ with contours every 100m. Remove any contours that are created that are not within the designated layers by using the select by attribute in the Attribute Table & selecting only the contours you want to keep, export the data as a new shapefile.

- 2018-05-04 00:00:00 - From the USA_EEZContours_Clipd utilize the Erase tool using the American Samoa Raster Polygon. This will remove any of the contours that were created previously that are at a lower detail existing where the American Samoa Contours will exist. Merge the American Samoas Contours into the EEZ_DEM contours & Dissolve by Contour then name the resulting contour shapefile: Elevation_Bathymetry. Label all the features by contour with a mask for increased visibility, add scale range to not show when zoomed out past 1:15million (min scale).

5.1.1. If data at different stages of the workflow, or products derived from these data, are subject to a separate data management plan, provide reference to other plan:

5.2. Quality control procedures employed (describe or provide URL of description):

6. Data Documentation

The EDMC Data Documentation Procedural Directive requires that NOAA data be well documented, specifies the use of ISO 19115 and related standards for documentation of new data, and provides

links to resources and tools for metadata creation and validation.

6.1. Does metadata comply with EDMC Data Documentation directive?

No

6.1.1. If metadata are non-existent or non-compliant, please explain:

Missing/invalid information:

- 1.7. Data collection method(s)
- 3.1. Responsible Party for Data Management
- 4.1. Have resources for management of these data been identified?
- 4.2. Approximate percentage of the budget for these data devoted to data management
- 5.2. Quality control procedures employed
- 7.1. Do these data comply with the Data Access directive?
- 7.1.1. If data are not available or has limitations, has a Waiver been filed?
- 7.1.2. If there are limitations to data access, describe how data are protected
- 7.3. Data access methods or services offered
- 7.4. Approximate delay between data collection and dissemination
- 8.1. Actual or planned long-term data archive location
- 8.2. Data storage facility prior to being sent to an archive facility
- 8.3. Approximate delay between data collection and submission to an archive facility
- 8.4. How will the data be protected from accidental or malicious modification or deletion prior to receipt by the archive?

6.2. Name of organization or facility providing metadata hosting:

NMFS Office of Science and Technology

6.2.1. If service is needed for metadata hosting, please indicate:

6.3. URL of metadata folder or data catalog, if known:

<https://www.fisheries.noaa.gov/inport/item/54364>

6.4. Process for producing and maintaining metadata

(describe or provide URL of description):

Metadata produced and maintained in accordance with the NOAA Data Documentation Procedural Directive: https://nosc.noaa.gov/EDMC/DAARWG/docs/EDMC_PD-Data_Documentation_v1.pdf

7. Data Access

NAO 212-15 states that access to environmental data may only be restricted when distribution is explicitly limited by law, regulation, policy (such as those applicable to personally identifiable information or protected critical infrastructure information or proprietary trade information) or by security requirements. The EDMC Data Access Procedural Directive contains specific guidance, recommends the use of open-standard, interoperable, non-proprietary web services, provides information about resources and tools to enable data access, and includes a Waiver to be submitted

to justify any approach other than full, unrestricted public access.

7.1. Do these data comply with the Data Access directive?

7.1.1. If the data are not to be made available to the public at all, or with limitations, has a Waiver (Appendix A of Data Access directive) been filed?

7.1.2. If there are limitations to public data access, describe how data are protected from unauthorized access or disclosure:

7.2. Name of organization of facility providing data access:

Office for Coastal Management (OCM)

7.2.1. If data hosting service is needed, please indicate:

7.2.2. URL of data access service, if known:

<ftp://ftp.coast.noaa.gov/pub/MSP/ORT/bathymetryContours.zip>

<https://coast.noaa.gov/arcgis/rest/services/OceanReportingTool/OceanReports/MapServer>

7.3. Data access methods or services offered:

7.4. Approximate delay between data collection and dissemination:

7.4.1. If delay is longer than latency of automated processing, indicate under what authority data access is delayed:

8. Data Preservation and Protection

The NOAA Procedure for Scientific Records Appraisal and Archive Approval describes how to identify, appraise and decide what scientific records are to be preserved in a NOAA archive.

8.1. Actual or planned long-term data archive location:

(Specify NCEI-MD, NCEI-CO, NCEI-NC, NCEI-MS, World Data Center (WDC) facility, Other, To Be Determined, Unable to Archive, or No Archiving Intended)

8.1.1. If World Data Center or Other, specify:

8.1.2. If To Be Determined, Unable to Archive or No Archiving Intended, explain:

8.2. Data storage facility prior to being sent to an archive facility (if any):

North Charleston, SC

8.3. Approximate delay between data collection and submission to an archive facility:

8.4. How will the data be protected from accidental or malicious modification or deletion prior to receipt by the archive?

Discuss data back-up, disaster recovery/contingency planning, and off-site data storage relevant to the data collection

9. Additional Line Office or Staff Office Questions

Line and Staff Offices may extend this template by inserting additional questions in this section.